INSTALLATION
AND USER'S MANUAL
810 LX / 815 LX

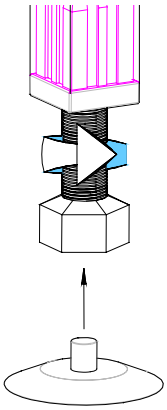
LANCER

LANCER RESERVES THE RIGHT TO MAKE ANY CHANGES IN THE MANUALS IN ORDER TO IMPROVE THEM.

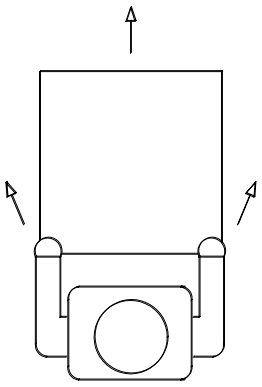
INSTALLATION MANUAL
810 LX / 815 LX

UNPACKAGING AND SETTING IN PLACE

- Remove the box and the plastic film from around the washer.
- Open the door of the washer by pulling the handle towards you and then lower the door to the horizontal position. Remove and inspect the contents of the washer and then close the door by raising it and pressing on the handle.



- Put the feet washers in their location.
- Level the washer by adjusting the four height adjustable feet.



- Move the washer to where it will be used.

  To move the washer put your hands on each side of the top cover. The washer can be pushed or pulled into position by sliding it on the feet.

THIS MACHINE MUST BE INSTALLED AND USED ACCORDING TO THE INSTRUCTIONS CONTAINED WITHIN THIS DOCUMENT. INCORRECT INSTALLATION OR USAGE MAY CAUSE THE PROTECTION PROVIDED BY THIS EQUIPMENT TO BE IMPAIRED.

THE FIRST TIME START-UP SHOULD BE PERFORMED BY A CERTIFIED LANCER SERVICE TECHNICIAN.

CHARACTERISTICS

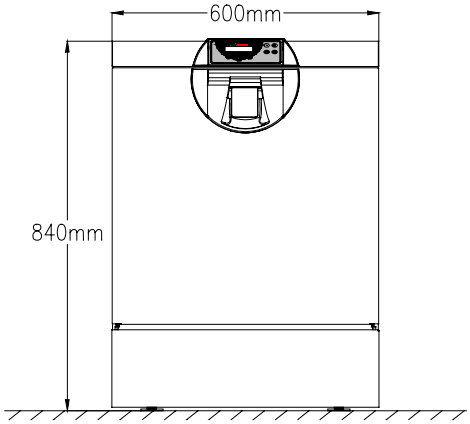
(STANDARD)

Heat loss : 600 Kcal/h (2380 BTU/h).

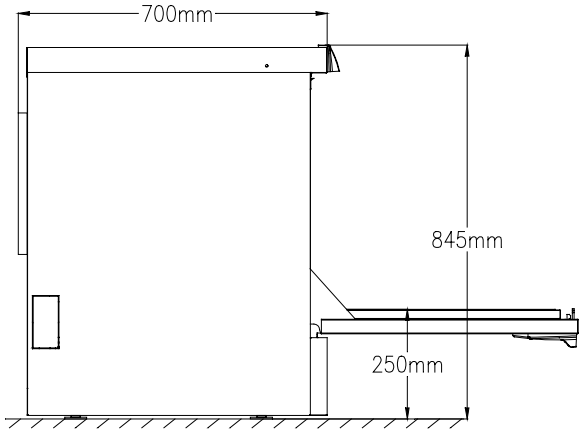
Noise level : 63 dBA in accordance with the European Council directive of June 14, 1989, concerning the harmonization of the legislation of European Union member states regarding machines, 89/392/CEE.

Weight : 90 kg (198 lbs.).

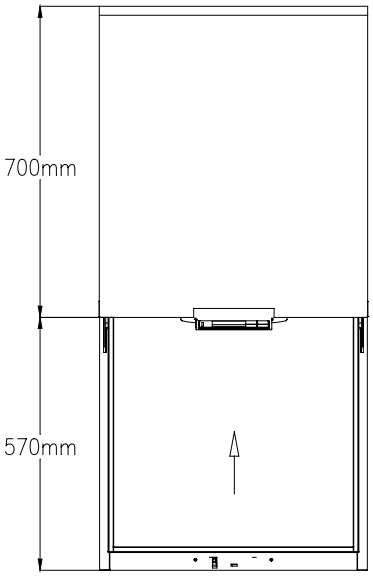
FRONT VIEW



SIDE VIEW



TOP VIEW (OPENED DOOR)



Overall dimensions :
Height : 845 mm (33.27 inches)
Width : 600 mm (23.62 inches)
Depth : 700 mm (27.56 inches)

Chamber dimensions :
Height : 508 mm (20 inches)
Width : 535 mm (21.06 inches)
Depth : 510 mm (20.08 inches)

CHARACTERISTICS

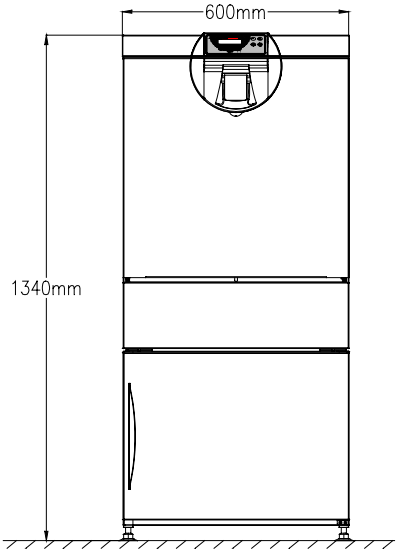
(WITH PLINTH / 02010020)

Heat loss : 600 Kcal/h (2380 BTU/h).

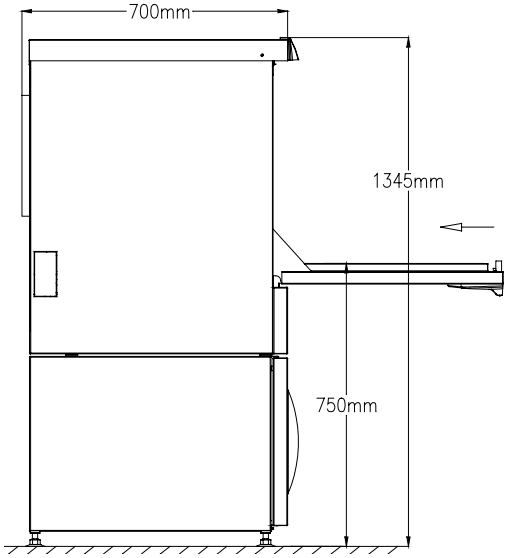
Noise level : 63 dBA in accordance with the European Council directive of June 14, 1989, concerning the harmonization of the legislation of European Union member states regarding machines, 89/392/CEE.

Weight : 90 kg (198 lbs.)

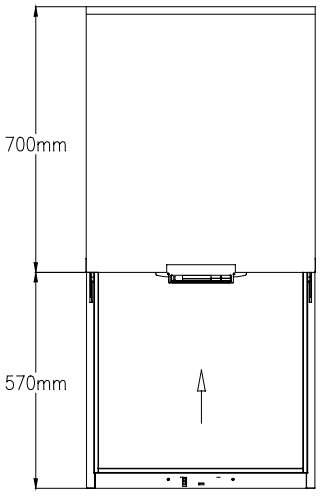
FRONT VIEW



SIDE VIEW



TOP VIEW (OPENED DOOR)



Overall dimensions :
Height : 1345 mm (52.95 inches)
Width : 600 mm (23.62 inches)
Depth : 700 mm (27.56 inches)

Chamber dimensions :
Height : 508 mm (20 inches)
Width : 535 mm (21.06 inches)
Depth : 510 mm (20.08 inches)

CHARACTERISTICS

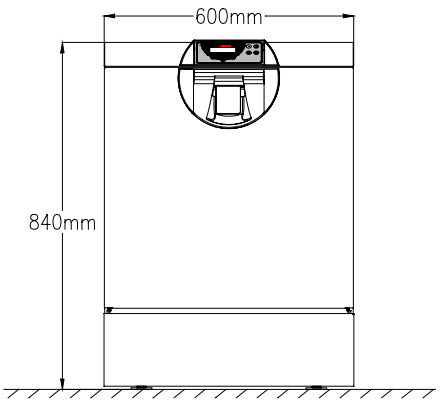
(400TRI WITHOUT NEUTRAL / 90010007)

Heat loss : 600 Kcal/h (2380 BTU/h).

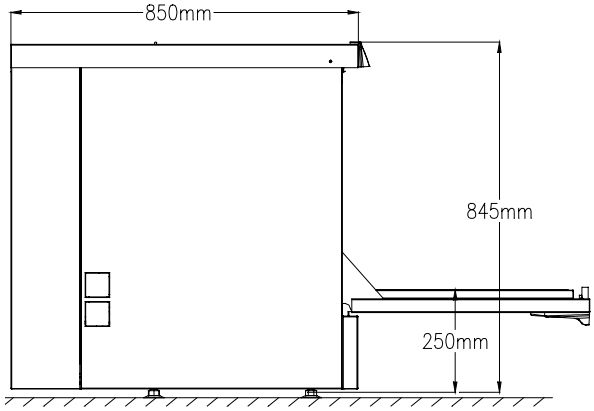
Noise level : 63 dBA in accordance with the European Council directive of June 14, 1989, concerning the harmonization of the legislation of European Union member states regarding machines, 89/392/CEE.

Weight : 90 kg (198 lbs.).

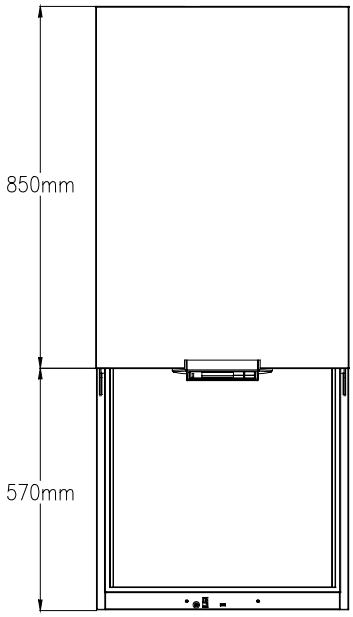
FRONT VIEW



SIDE VIEW



TOP VIEW (OPENED DOOR)



Overall dimensions :
Height : 845 mm (33.27 inches)
Width : 600 mm (23.62 inches)
Depth : 850 mm (33.46 inches)

Chamber dimensions :
Height : 508 mm (20 inches)
Width : 535 mm (21.06 inches)
Depth : 510 mm (20.08 inches)

CHARACTERISTICS

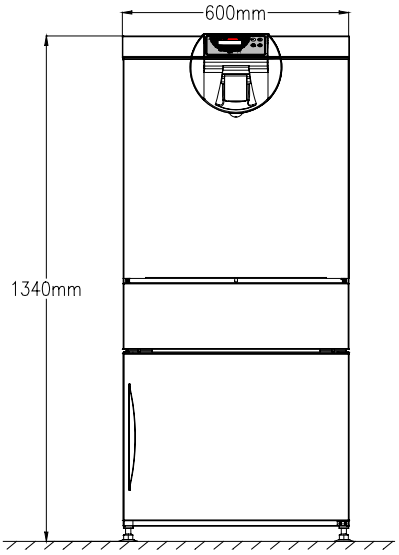
(400 WITHOUT NEUTRAL - WITH PLINTH / 90010007 + 02010020)

Heat loss : 600 Kcal/h (2380 BTU/h).

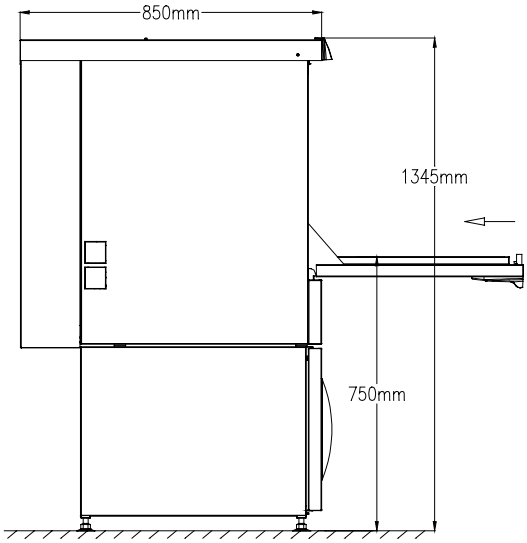
Noise level : 63 dBA in accordance with the European Council directive of June 14, 1989, concerning the harmonization of the legislation of European Union member states regarding machines, 89/392/CEE.

Weight : 90 kg (198 lbs.)

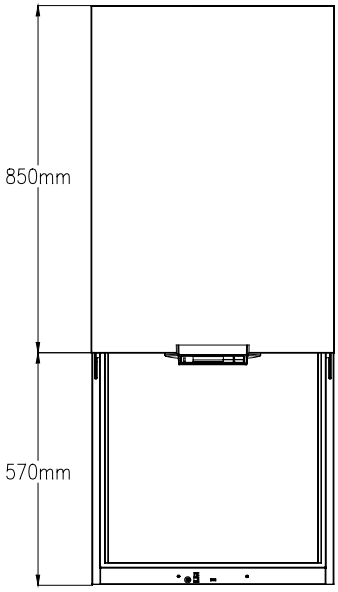
FRONT VIEW



SIDE VIEW



TOP VIEW (OPENED DOOR)



Overall dimensions :
Height : 1345 mm (52.95 inches)
Width : 600 mm (23.62 inches)
Depth : 850 mm (33.46 inches)

Chamber dimensions :
Height : 508 mm (20 inches)
Width : 535 mm (21.06 inches)
Depth : 510 mm (20.08 inches)

OPERATING ENVIRONMENT

The washer is designed for use in the following conditions :

- AN INDOOR ENVIRONMENT.
- ALTITUDE UP TO 2000 METERS (6,562 FEET).
- TEMPERATURE BETWEEN 5°C AND 40°C (41°F AND 104°F).
- MAXIMUM RELATIVE HUMIDITY OF 80% UP TO 31°C (88°F) DECREASING LINEARLY TO 50% RELATIVE HUMIDITY AT 40°C (104°F).

WATER CONNECTIONS

(PRESSURIZED DEMINERALIZED WATER SUPPLY - STANDARD)

COLD WATER :

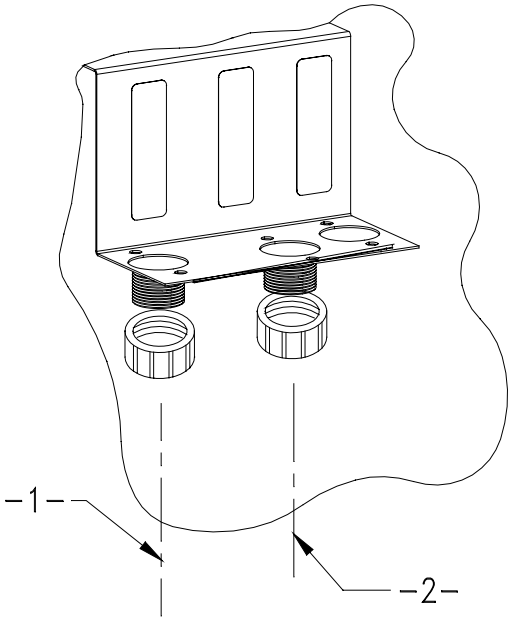
A valve with a male threaded nozzle, 20/27 diameter, (3/4" hose thread) is required.
Flow rate : 20 l/min (5.3 GPM) with a minimum pressure of 200 kPa (2 bar or 29 PSI) and maximum 600 kPa (6 bar or 87 PSI).

DEMINERALIZED, DISTILLED OR REVERSE OSMOSIS WATER :

By stainless steel, PVC or similar piping.
A valve with a threaded male nozzle, 20/27 diameter (3/4" hose thread) is required.
Flow rate : 20 l/min (5.3 GPM) under minimum pressure of 200 kPa (2 bar or 29 PSI) and maximum 600 kPa (6 bar or 87 PSI).

The waters intakes will have to be in waters intakes setting up area (*see drawing next page*).

Remove the rear bodywork to accede to the connection support.



WATER CONNECTIONS

-1- COLD WATER
-2- DEMI. WATER

WATER CONNECTIONS

(DEMINERALIZED WATER TANK SUPPLY / 90010187)

COLD WATER :

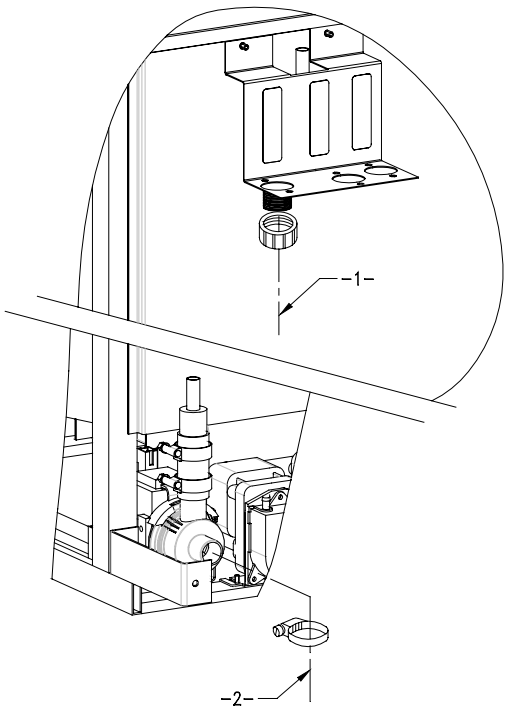
A valve with a male threaded nozzle, 20/27 diameter, (3/4" hose thread) is required.
Flow rate : 20 l/min (5.3 GPM) with a minimum pressure of 200 kPa (2 bar or 29 PSI) and maximum 600 kPa (6 bar or 87 PSI).

DEMINERALIZED, DISTILLED OR REVERSE OSMOSIS WATER :

The machine is fitted with a hose barb type fitting with an outside diameter of 20 mm (3/4 inch) on its base and the tank is installed 150 mm (6 inches) above floor level on a support, preferably of type BRH as manufactured by LANCER. Hose clamps should be used to make the connection to the hose barb fitting.
Flow rate : 20 l/min (5.3 GPM) under minimum pressure of 0 kPa (0 bar or 0 PSI) and maximum 28 kPa (0.28 bar or 4 PSI).

The waters intakes will have to be in waters intakes setting up area (*see drawing next page*).

Remove the rear bodywork to accede to the connection support.



WATER CONNECTIONS

-1- COLD WATER
-2- DEMI. WATER

WATER CONNECTIONS

(DEMINERALIZED WATER TANK SUPPLY WITH PLINTH BASE STAND / 90010187 + 02010020)

COLD WATER :

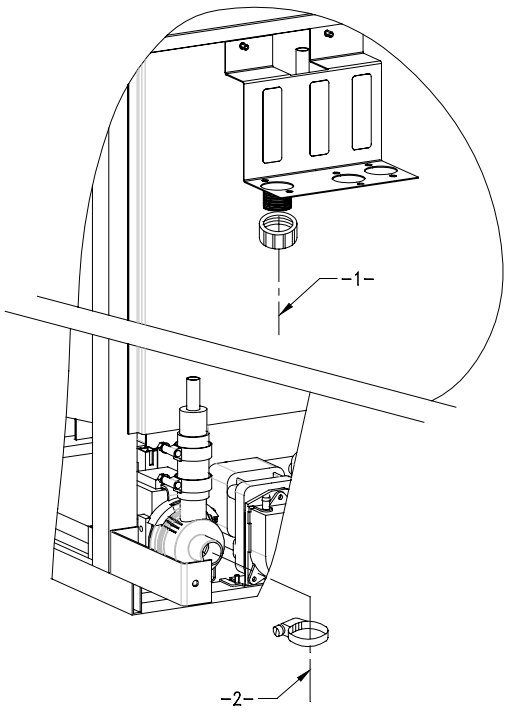
A valve with a male threaded nozzle, 20/27 diameter, (3/4" hose thread) is required.
Flow rate : 20 l/min (5.3 GPM) with a minimum pressure of 200 kPa (2 bar or 29 PSI) and maximum 600 kPa (6 bar or 87 PSI).

DEMINERALIZED, DISTILLED OR REVERSE OSMOSIS WATER :

The machine is fitted with a hose barb type fitting with an outside diameter of 20 mm (3/4 inch) on its base and the tank is installed 650 mm (26 inches) above floor level on a support, preferably of type BRH as manufactured by LANCER. Hose clamps should be used to make the connection to the hose barb fitting. Flow rate: 20 l/min (5.3 GPM) under minimum pressure of 0 kPa (0 bar or 0 PSI) and maximum 28 kPa (0.28 bar or 4 PSI).

The waters intakes will have to be in waters intakes setting up area (*see drawing next page*).

Remove the rear bodywork to accede to the connection support.



WATER CONNECTIONS

-1- COLD WATER
-2- DEMI. WATER

WATER CONNECTIONS

(INTERMEDIATE PRESSURE DEMINERALIZED SUPPLY / 01060206)

COLD WATER :

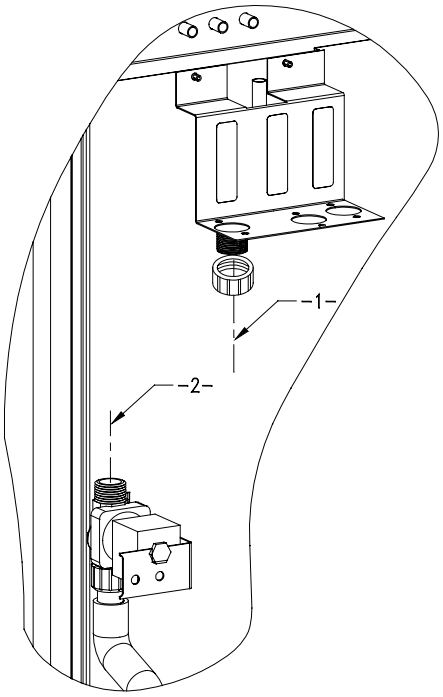
A valve with a male threaded nozzle, 20/27 diameter, (3/4" hose thread) is required.
Flow rate : 20 l/min (5.3 GPM) with a minimum pressure of 200 kPa (2 bar or 29 PSI) and maximum 600 kPa (6 bar or 87 PSI).

DEMINERALIZED, DISTILLED OR REVERSE OSMOSIS WATER :

By stainless steel, PVC or similar piping.
A valve with a threaded male nozzle, 20/27 diameter (3/4" hose thread) is required.
Flow rate: 20 l/min (5.3 GPM) under minimum pressure of 35 kPa (0.35 bar or 5 PSI) and maximum 600 kPa (6 bar or 87 PSI).

The waters intakes will have to be in waters intakes setting up area (*see drawing next page*).

Remove the rear bodywork to accede to the connection support.



WATER CONNECTIONS

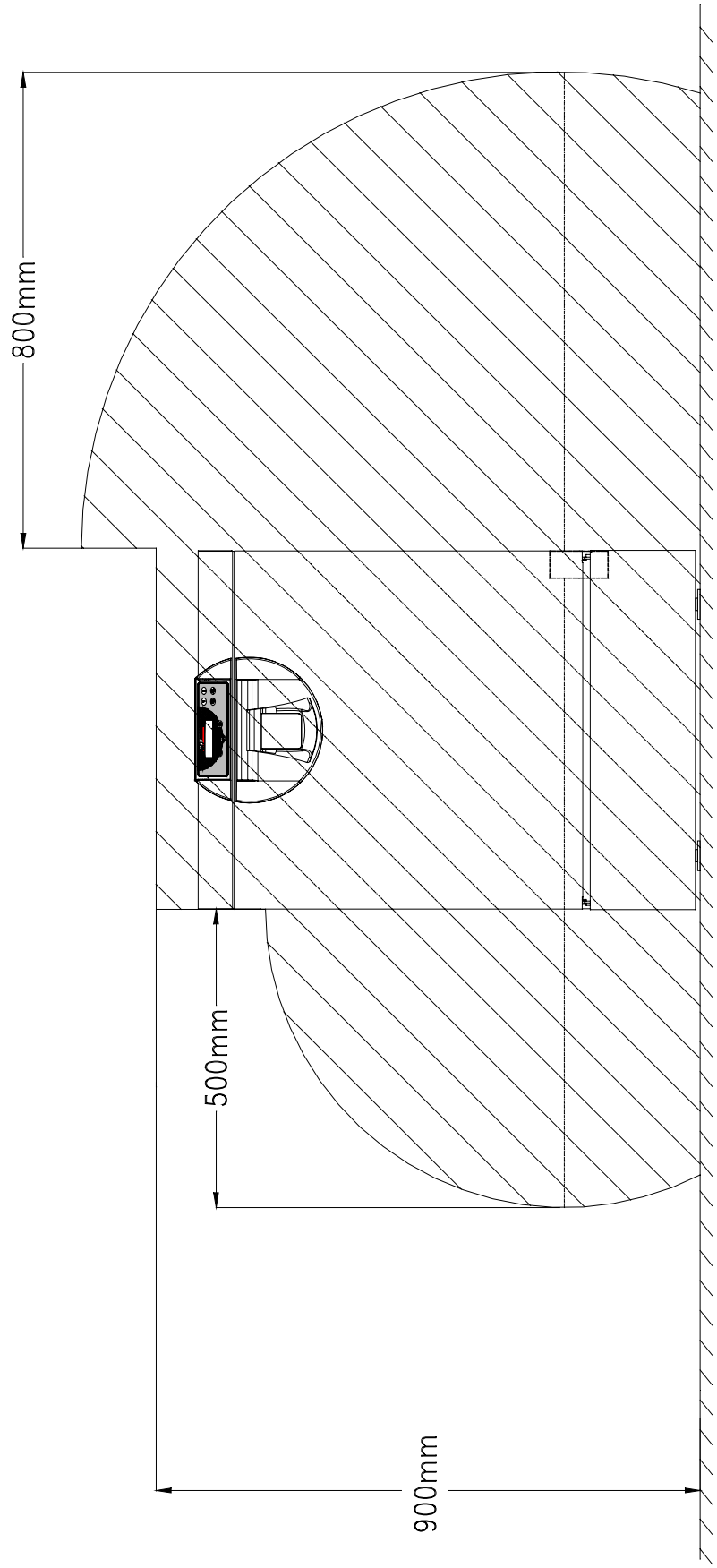
-1- COLD WATER
-2- DEMI. WATER

DRAIN DISCHARGE COOLING WATER : (90010077)

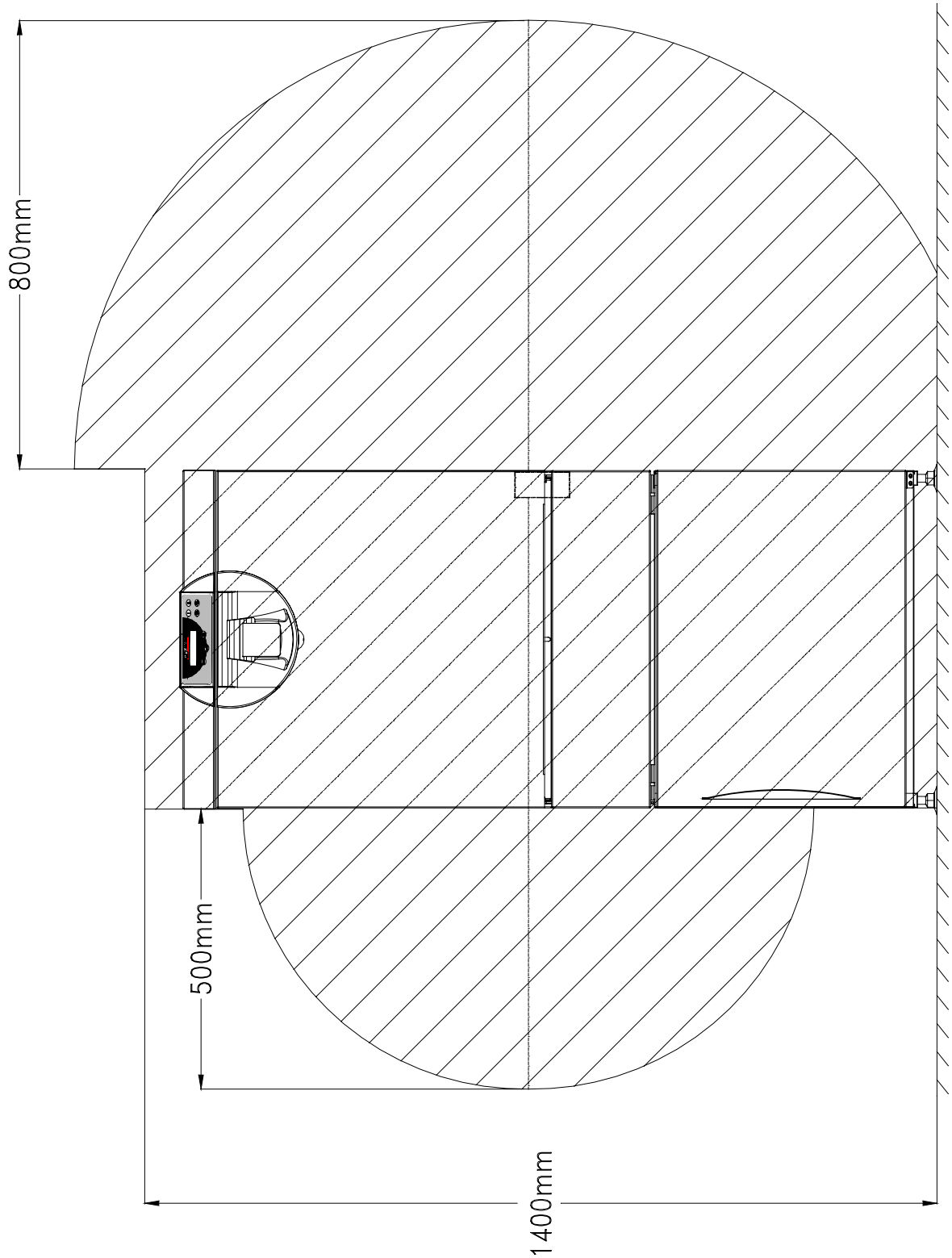
Utilizes the COLD WATER valve as specified above. Cold water source should be less than 25°C.

CONDENSER : (90010078)

Utilizes the COLD WATER valve as specified above. Cold water source should be less than 25°C.



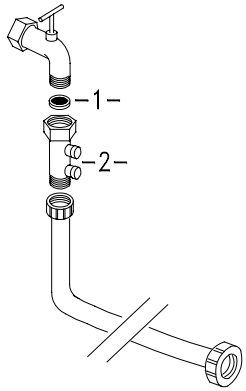
WATERS INTAKES MUST BE LOCATED IN THIS AREA (STANDARD)



WATERS INTAKES MUST BE LOCATED IN THIS AREA (PLINTH / 02010020)

Flush and drain all water supply lines to remove debris before making connections to flexible hoses.
The hoses required to connect the washer to the various water inlets are supplied with the machine.
The maximum length of flexible hoses should be less than 1500 mm (59 inches).
Disconnectors are provided for connecting the flexible hoses to the water supply lines.

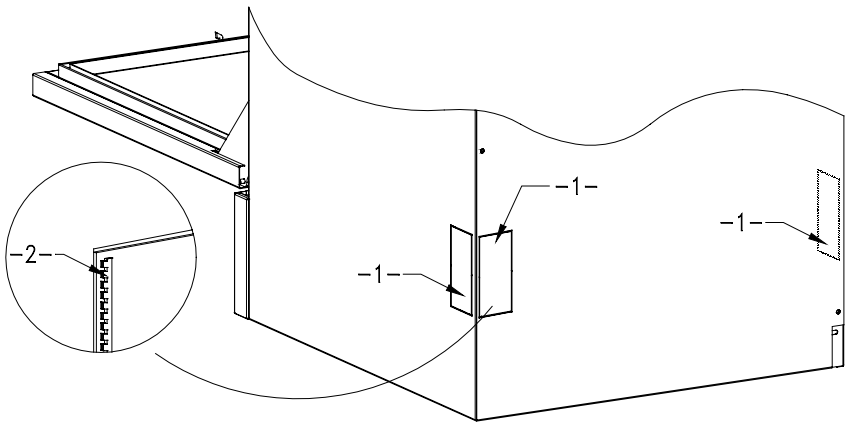
Make the connections by fitting the strainer filters between the disconnector and the threaded connection at the water supply line.



-1- STRAINER FILTER
-2- DISCONNECTOR

Knock-outs (pre-cut plates) are provided for the proper routing of flexible water hoses.

IN ORDER TO PROTECT THE FLEXIBLE HOSES FROM THE EDGE OF THE PRE-CUT PLATES, INSTALL THE PROTECTIVE RUBBER EDGING WHICH IS SUPPLIED WITH THE MACHINE. IT IS SHIPPED INSIDE THE CHAMBER WITH THE DOCUMENTATION .



-1- KNOCK-OUTS (PRE-CUT PLATES)
-2- PROTECTION

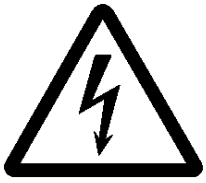
ELECTRICAL CONNECTION

(STANDARD - 400TRI+N+T)

BEFORE CARRYING OUT ANY WORK ON THE WASHER, MAKE SURE IT IS SWITCHED OFF AT THE ELECTRICAL DISCONNECT SWITCH.

ELECTRICAL SUPPLY :

CHECK FOR CORRECT VOLTAGE SUPPLY AT THE ELECTRICAL PANEL BEFORE MAKING ANY ELECTRICAL CONNECTIONS.



ELECTRICAL DISCONNECT SWITCH :

THE FOLLOWING EQUIPMENT MUST BE EASILY AND QUICKLY ACCESSIBLE NEAR THE WASHER : A DISCONNECTING SWITCH LOCKABLE IN THE OPEN (OFF) POSITION AND A DIFFERENTIAL MAGNETIC-THERMAL CIRCUIT-BREAKER WITH TYPE D TRIPPING CURVE.

TOTAL POWER TO BE SUPPLIED	7 KW
Recycling pump	1 KW
Heating	6 kW
Drying (*)	2 kW

	Consumption
400v TRI+NEUTRAL+EARTH / 50 HZ	11 A/Phase

(*) : Applicable only on models 815 LX.

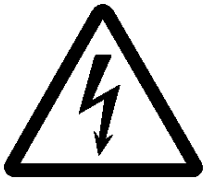
ELECTRICAL CONNECTION

(230TRI+T / 90010101)

BEFORE CARRYING OUT ANY WORK ON THE WASHER, MAKE SURE IT IS SWITCHED OFF AT THE ELECTRICAL DISCONNECT SWITCH.

ELECTRICAL SUPPLY :

CHECK FOR CORRECT VOLTAGE SUPPLY AT THE ELECTRICAL PANEL BEFORE MAKING ANY ELECTRICAL CONNECTIONS.



ELECTRICAL DISCONNECT SWITCH :

THE FOLLOWING EQUIPMENT MUST BE EASILY AND QUICKLY ACCESSIBLE NEAR THE WASHER : A DISCONNECTING SWITCH LOCKABLE IN THE OPEN (OFF) POSITION AND A DIFFERENTIAL MAGNETIC-THERMAL CIRCUIT-BREAKER WITH TYPE D TRIPPING CURVE.

TOTAL POWER TO BE SUPPLIED	7 KW
Recycling pump	1 KW
Heating	6 kW
Drying (*)	2 kW

	Consumption
230v TRI+EARTH / 50 HZ	18 A/Phase

(*) : Applicable only on models 815 LX.

ELECTRICAL CONNECTION

(200TRI+T 50-60HZ / 90010002-90010012)

BEFORE CARRYING OUT ANY WORK ON THE WASHER, MAKE SURE IT IS SWITCHED OFF AT THE ELECTRICAL DISCONNECT SWITCH.

ELECTRICAL SUPPLY :

CHECK FOR CORRECT VOLTAGE SUPPLY AT THE ELECTRICAL PANEL BEFORE MAKING ANY ELECTRICAL CONNECTIONS.

ELECTRICAL DISCONNECT SWITCH :

THE FOLLOWING EQUIPMENT MUST BE EASILY AND QUICKLY ACCESSIBLE NEAR THE WASHER : A DISCONNECTING SWITCH LOCKABLE IN THE OPEN (OFF) POSITION AND A DIFFERENTIAL MAGNETIC-THERMAL CIRCUIT-BREAKER WITH TYPE D TRIPPING CURVE.

TOTAL POWER TO BE SUPPLIED	7 KW
Recycling pump	1 KW
Heating	6 kW
Drying (*)	2 kW

	Consumption
200v TRI+EARTH / 50 - 60 HZ	21 A/Phase

(*) : Applicable only on models 815 LX.

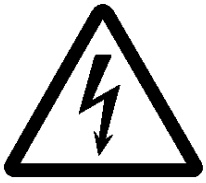
ELECTRICAL CONNECTION

(230MONO+T / 90010100)

BEFORE CARRYING OUT ANY WORK ON THE WASHER, MAKE SURE IT IS SWITCHED OFF AT THE ELECTRICAL DISCONNECT SWITCH.

ELECTRICAL SUPPLY :

CHECK FOR CORRECT VOLTAGE SUPPLY AT THE ELECTRICAL PANEL BEFORE MAKING ANY ELECTRICAL CONNECTIONS.



ELECTRICAL DISCONNECT SWITCH :

THE FOLLOWING EQUIPMENT MUST BE EASILY AND QUICKLY ACCESSIBLE NEAR THE WASHER : A DISCONNECTING SWITCH LOCKABLE IN THE OPEN (OFF) POSITION AND A DIFFERENTIAL MAGNETIC-THERMAL CIRCUIT-BREAKER WITH TYPE D TRIPPING CURVE.

TOTAL POWER TO BE SUPPLIED	7 KW
Recycling pump	1 KW
Heating	6 kW
Drying (*)	2 kW

	Consumption
230v MONO+EARTH / 50 HZ	31 A/Phase

(*) : Applicable only on models 815 LX.

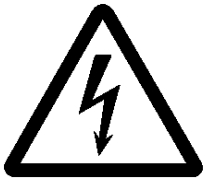
ELECTRICAL CONNECTION

(400TRI WITHOUT NEUTRAL / 90010007)

BEFORE CARRYING OUT ANY WORK ON THE WASHER, MAKE SURE IT IS SWITCHED OFF AT THE ELECTRICAL DISCONNECT SWITCH.

ELECTRICAL SUPPLY :

CHECK FOR CORRECT VOLTAGE SUPPLY AT THE ELECTRICAL PANEL BEFORE MAKING ANY ELECTRICAL CONNECTIONS.



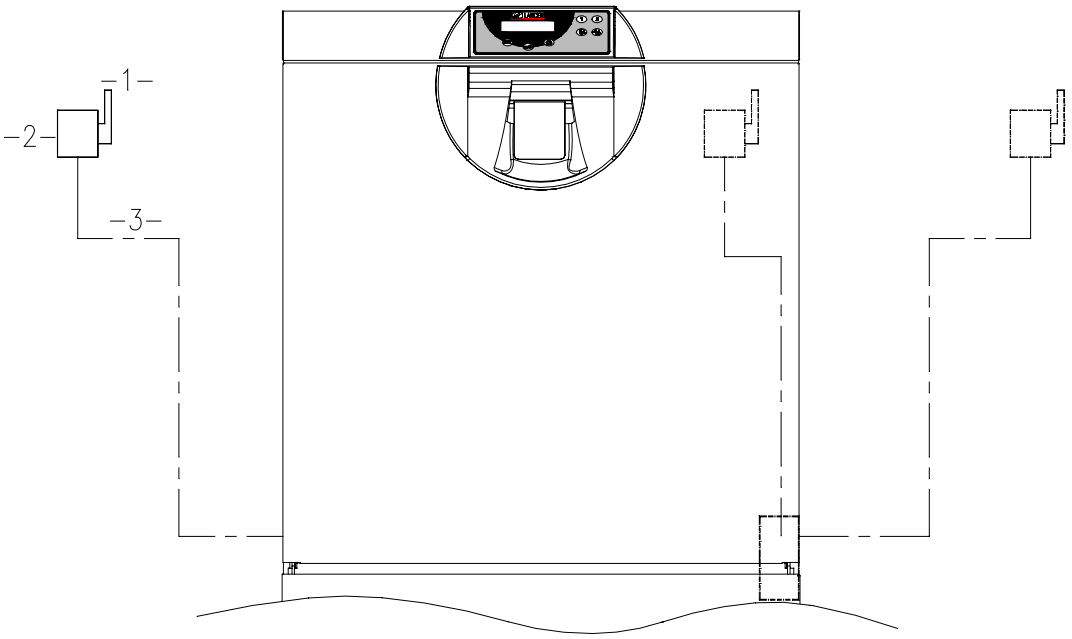
ELECTRICAL DISCONNECT SWITCH :

THE FOLLOWING EQUIPMENT MUST BE EASILY AND QUICKLY ACCESSIBLE NEAR THE WASHER : A DISCONNECTING SWITCH LOCKABLE IN THE OPEN (OFF) POSITION AND A DIFFERENTIAL MAGNETIC-THERMAL CIRCUIT-BREAKER WITH TYPE D TRIPPING CURVE.

TOTAL POWER TO BE SUPPLIED	7 KW
Recycling pump	1 KW
Heating	6 kW
Drying (*)	2 kW

	Consumption
400v TRI+EARTH / 50 HZ	11 A/Phase

(*) : Applicable only on models 815 LX.



ELECTRICAL CONNECTION

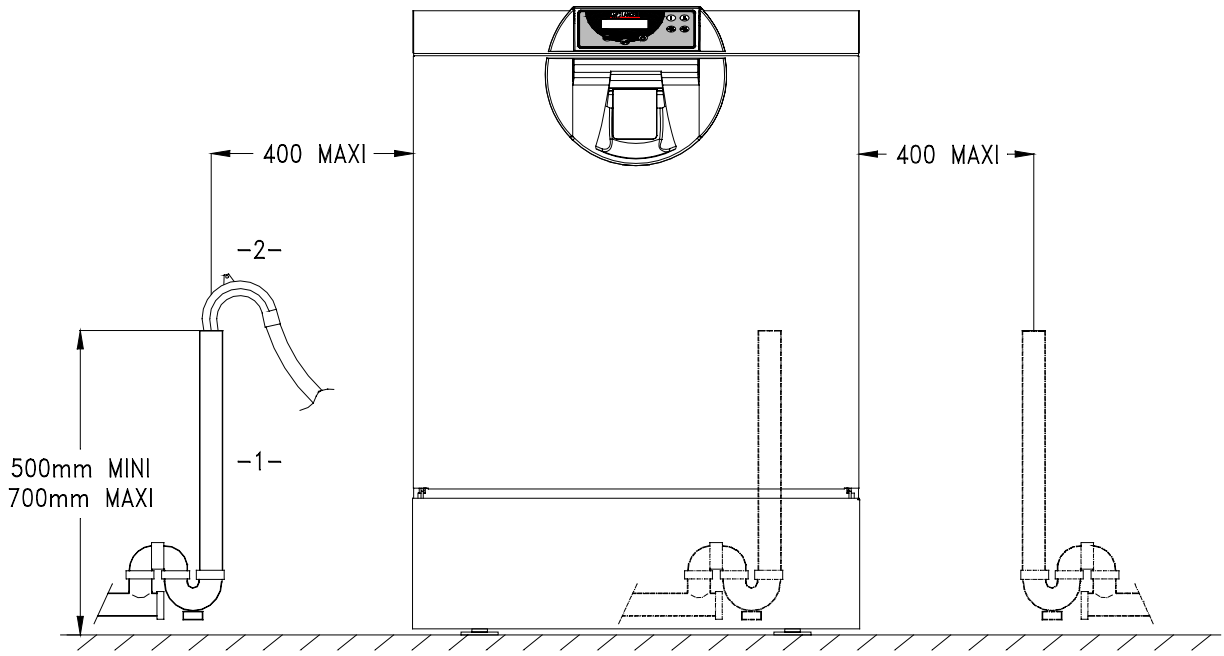
The electrical disconnect switch can be installed to the left, to the right, or behind the washer. The circuit breaker must be labelled as the protection device for the LANCER WASHER.

-1- ELECTRICAL DISCONNECT SWITCH (PROVIDED BY OTHERS)
-2- CIRCUIT BREAKER (PROVIDED BY OTHERS)
-3- ELECTRICAL CABLE LENGTH 2 METERS (6 FEET)

DISCHARGE OF WASTE WATERS

(STANDARD WITH NO CONDENSER)

Provide a fixed standpipe and plumbing trap with a minimum inside diameter of 40 mm (1 ½ inches).
Height above floor level : 500 mm (20 inches) minimum and 700 mm (27 ½ inches) maximum.



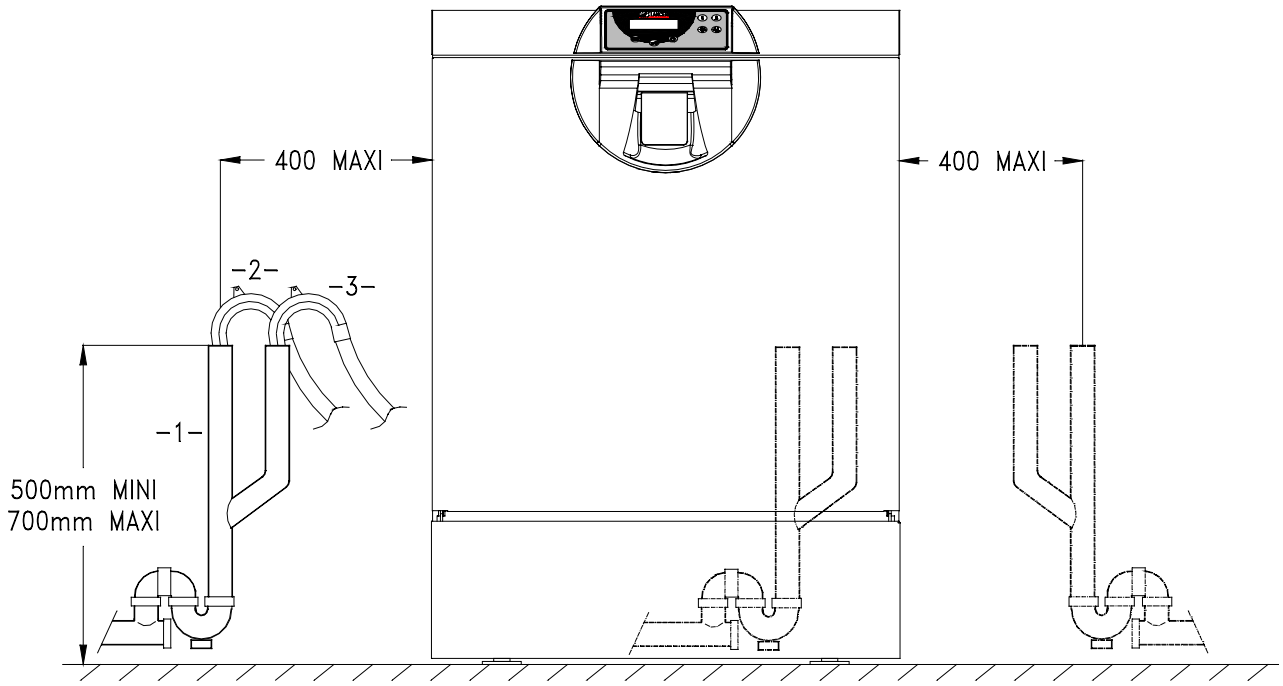
The discharge tube can be installed to the left, to the right, or behind the washer.

-1- 40 MM (1 ½ INCH) WASTE WATER STANDPIPE
-2- WASTE WATER FLEXIBLE EMPTYING HOSE

DISCHARGE OF WASTE WATERS

(STANDARD WITH CONDENSER / 90010078)

Provide 2 fixed standpipes (as shown) and plumbing trap with minimum inside diameters of 40 mm (1 ½ inches) per standpipe.
Height above floor level : 500 mm (20 inches) minimum and 700 mm (27 ½ inches) maximum.



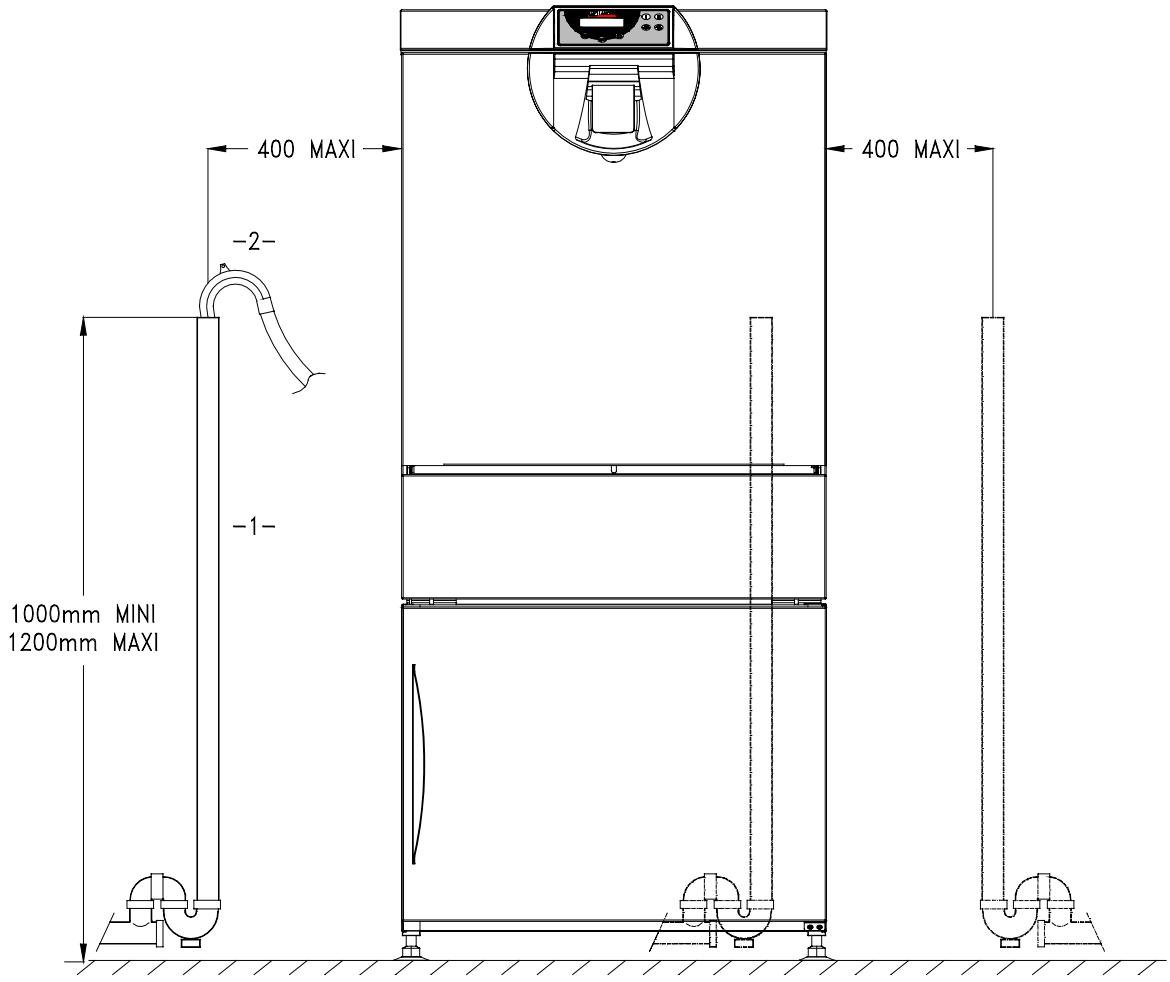
The discharge tube can be installed to the left, to the right, or behind the washer.

-1- 40 MM (1 ½ INCH) WASTE WATER STANDPIPE
-2- WASTE WATER FLEXIBLE EMPTYING HOSE
-3- CONDENSER FLEXIBLE EMPTYING HOSE

DISCHARGE OF WASTE WATERS

(PLINTH WITH NO CONDENSOR / 02010020)

Provide a fixed standpipe and plumbing trap with a minimum inside diameter of 40 mm (1 ½ inches).
Height above floor level : 1000 mm (40 inches) minimum and 1200 mm (47 ½ inches) maximum.



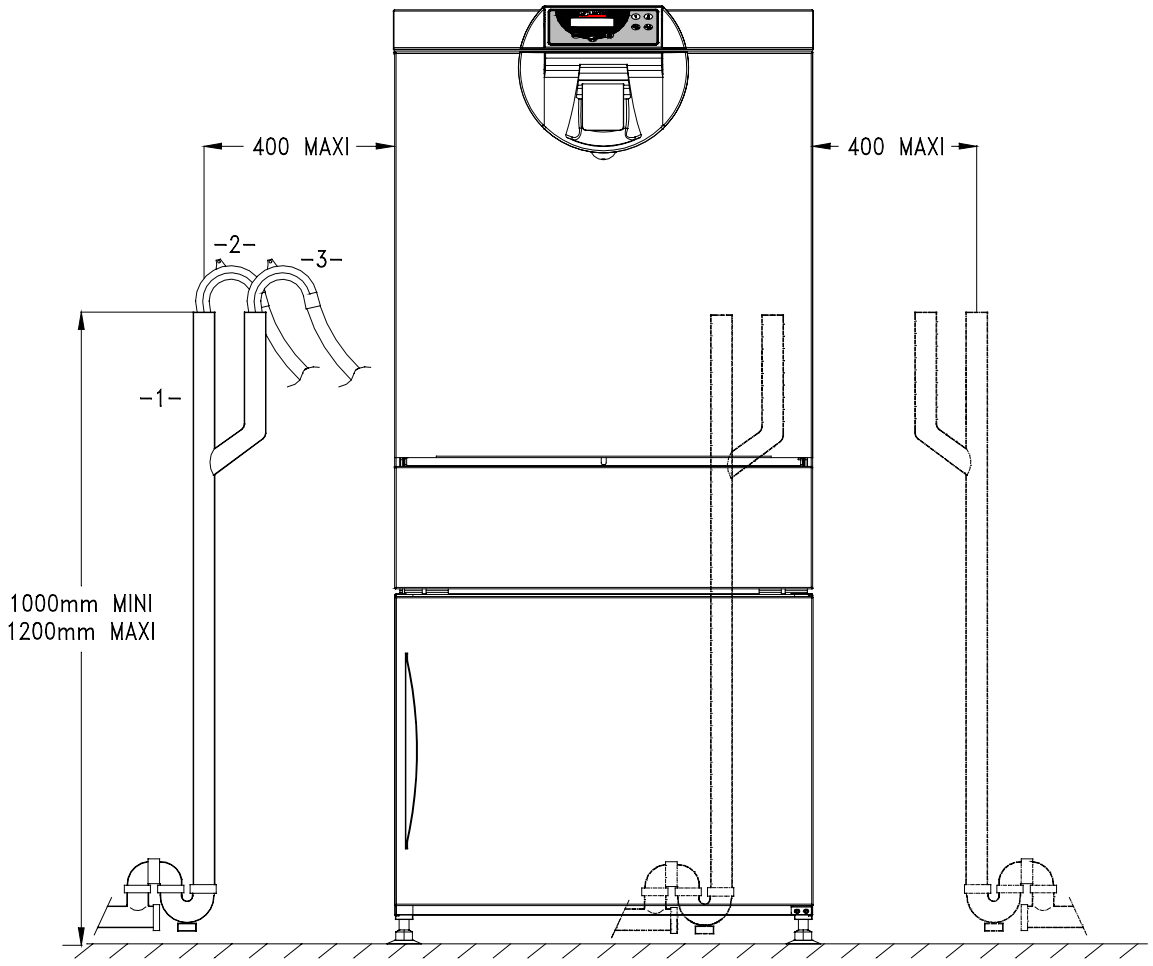
The discharge tube can be installed to the left, to the right, or behind the washer.

-1- 40 MM (1 ½ INCH) WASTE WATER STANDPIPE
-2- WASTE WATER FLEXIBLE EMPTYING HOSE

DISCHARGE OF WASTE WATERS

(PLINTH WITH CONDENSER / 02010020 + 90010078)

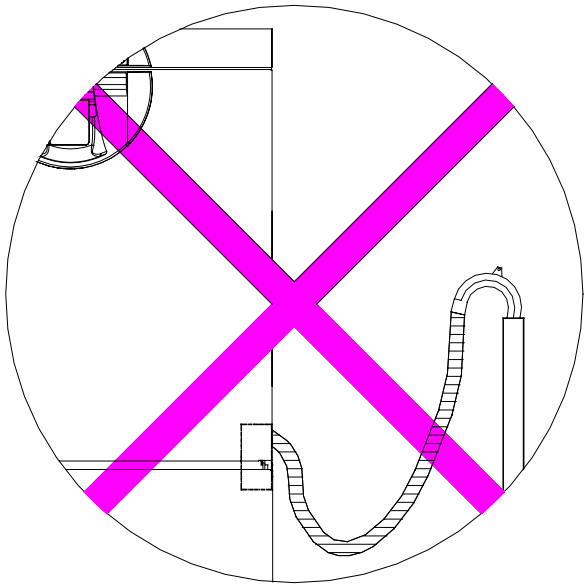
Provide 2 fixed standpipes (as shown) and plumbing trap with minimum inside diameters of 40 mm (1 ½ inches).
Height above floor level : 1000 mm (40 inches) minimum and 1200 mm (47 ½ inches) maximum.

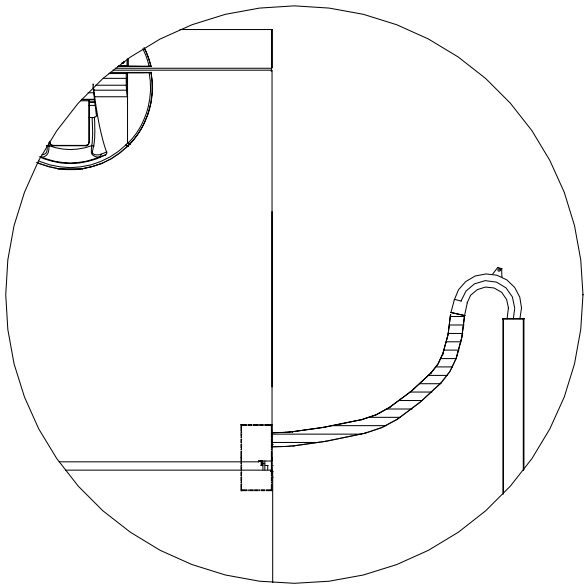


The discharge tube can be installed to the left, to the right, or behind the washer.

-1- 40 MM (1 ½ INCH) WASTE WATER STANDPIPE
-2- WASTE WATER FLEXIBLE EMPTYING HOSE
-3- CONDENSER FLEXIBLE EMPTYING HOSE

IN ORDER TO AVOID THE ALARM N°2 ON THE DISPLAY (SEE USER'S MANUAL), CHECK THAT THE EMPTYING TUBE(S) IS/ARE INSTALLED PROPERLY ACCORDING TO THE DIAGRAMS BELOW.

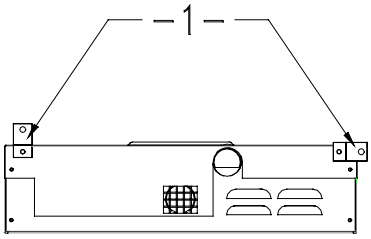




WALL FIXATION

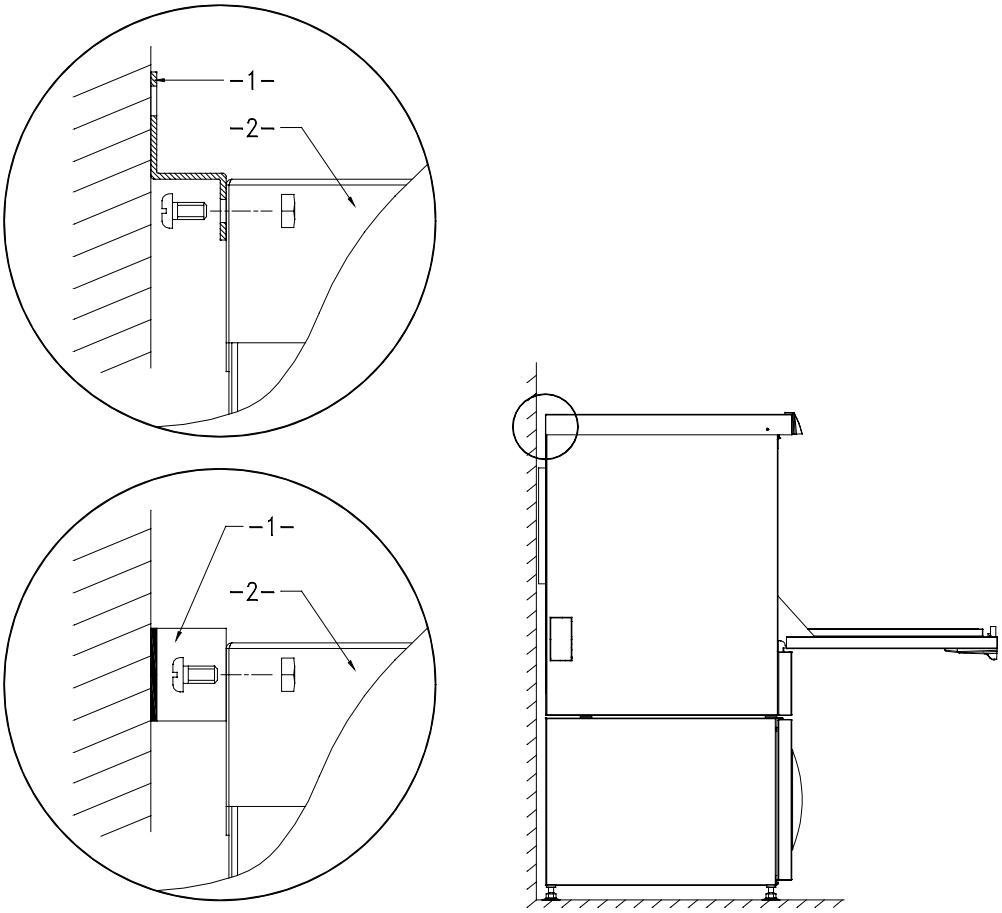
(PLINTH / 02010020)

It is recommended to fix the washer against the wall. You can choose, according to the space available around the washer, the location of the fixing plate to the wall : on the side or on top of the cover (*see drawing below*).



MOUNTING OF THE PLATES :

- Take the two fixing plates out of the chamber,
- Install the plates on the cover (*see drawing below*),
- Fix the plates to the wall.



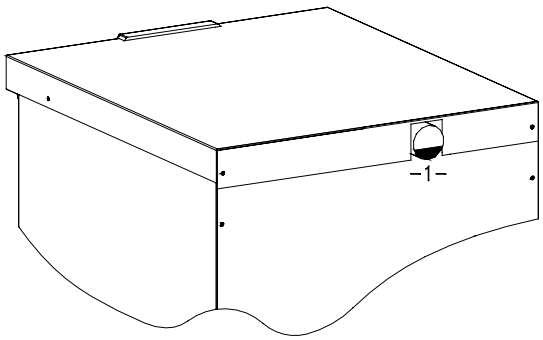
-1- WALL FIXING PLATE
-2- COVER

DISCHARGE OF STEAM

(NO CONDENSER)

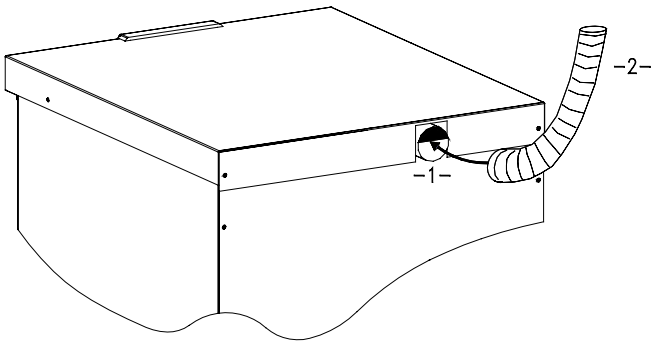
TWO SOLUTIONS :

- If you decide that it is not necessary to install a flexible hose, you must turn the steam draining pipe as show.



- Otherwise, provide, *by others*, the connection of a flexible hose with an inside diameter of 50 mm (2 inches) between the top of the machine and an external discharge point under negative pressure. Flexible hose material should be suitable for 95°C (203°F) service. The steam draining pipe must be turn as show.

  Air flow : 60 m^3/H (35 CFM)
  Maximum temperature : 90°C
  Relative humidity : 85%



-1- STEAM DRAINING PIPE
-2- 50 MM DIAMETER FLEXIBLE HOSE (PROVIDED BY OTHERS)

TO AVOID PRESSURE PROBLEMS IN THE CHAMBER, DO NOT BLOCK THE STEAM EXHAUST TUBE.

THE WASHING PRODUCTS

(STANDARD)

NON-FOAMING DETERGENT

Place a container of NON-FOAMING LIQUID DETERGENT next to the washer at a maximum height of 150 mm (6 inches) above floor level. Remove the cap from the detergent container and insert the detergent suction tube into the detergent container. Tighten the cap.

IT IS STRICTLY PROHIBITED TO USE SOLVENTS AS DETERGENT.

PLEASE REFER TO SUPPLIERS MATERIAL SAFETY DATA SHEET FOR SPECIFIC INFORMATION REGARDING THE DETERGENT USED IN THIS EQUIPMENT.

NEUTRALIZING ACID

Place a container of NEUTRALIZING ACID next to the washer at a maximum height of 150 mm (6 inches) above floor level. Remove the cap from the acid container and insert the acid suction tube into the acid container. Tighten the cap.

THE USE OF NITRIC ACID IS PROHIBITED. ONLY DILUTE PHOSPHORIC, ACETIC AND CITRIC ACIDS CAN BE USED.

PLEASE REFER TO SUPPLIERS MATERIAL SAFETY DATA SHEET FOR SPECIFIC INFORMATION REGARDING THE ACID USED IN THIS EQUIPMENT.

BEFORE CARRYING OUT ANY WORK ON THE WASHER, MAKE SURE IT IS SWITCHED OFF AT THE DISCONNECTING SWITCH.

THE WASHING PRODUCTS

(WITH PLINTH / 02010020)

NON-FOAMING DETERGENT

Place a container of NON-FOAMING LIQUID DETERGENT inside the plinth cabinet below the wash chamber. Remove the cap from the detergent container and insert the detergent suction tube into the detergent container. Tighten the cap.

IT IS STRICTLY PROHIBITED TO USE SOLVENTS AS DETERGENT.

PLEASE REFER TO SUPPLIERS MATERIAL SAFETY DATA SHEET FOR SPECIFIC INFORMATION REGARDING THE DETERGENT USED IN THIS EQUIPMENT.

NEUTRALIZING ACID

Place a container of NEUTRALIZING ACID inside the plinth cabinet below the wash chamber. Remove the cap from the acid container and insert the acid suction tube into the acid container. Tighten the cap.

THE USE OF NITRIC ACID IS PROHIBITED. ONLY DILUTE PHOSPHORIC, ACETIC AND CITRIC ACIDS CAN BE USED.

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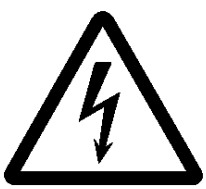

BEFORE CARRYING OUT ANY WORK ON THE WASHER, MAKE SURE IT IS SWITCHED OFF AT THE DISCONNECTING SWITCH.